

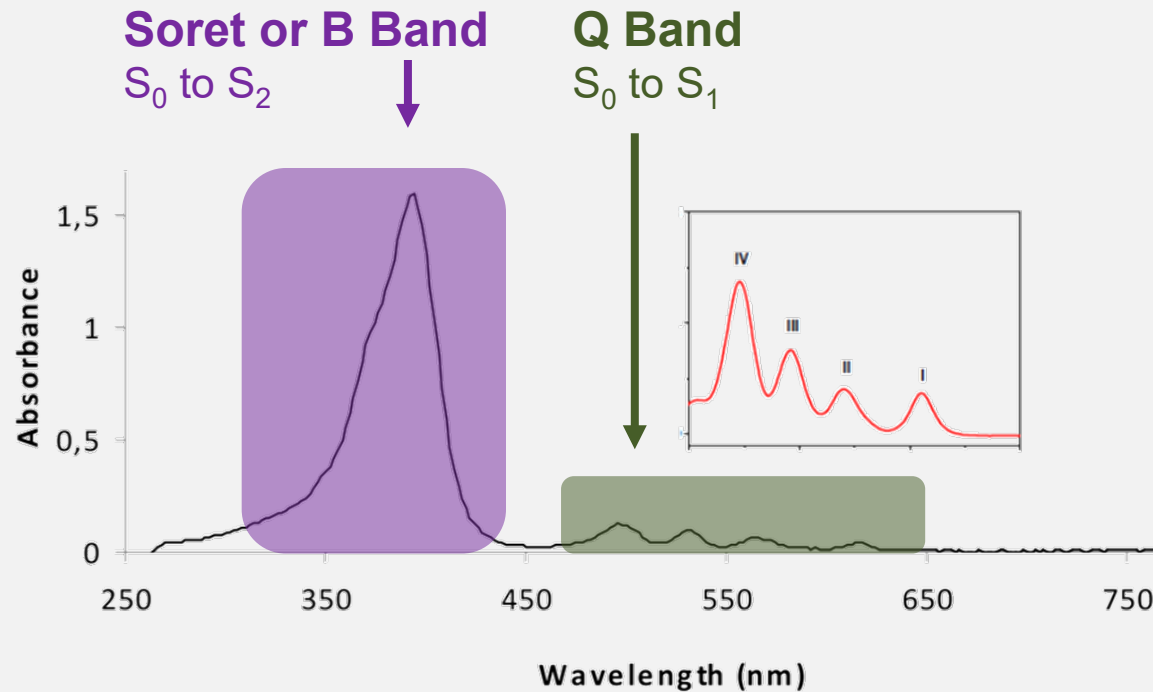
Synthesis and Characterisation of Metallo-Porphyrin Dyads

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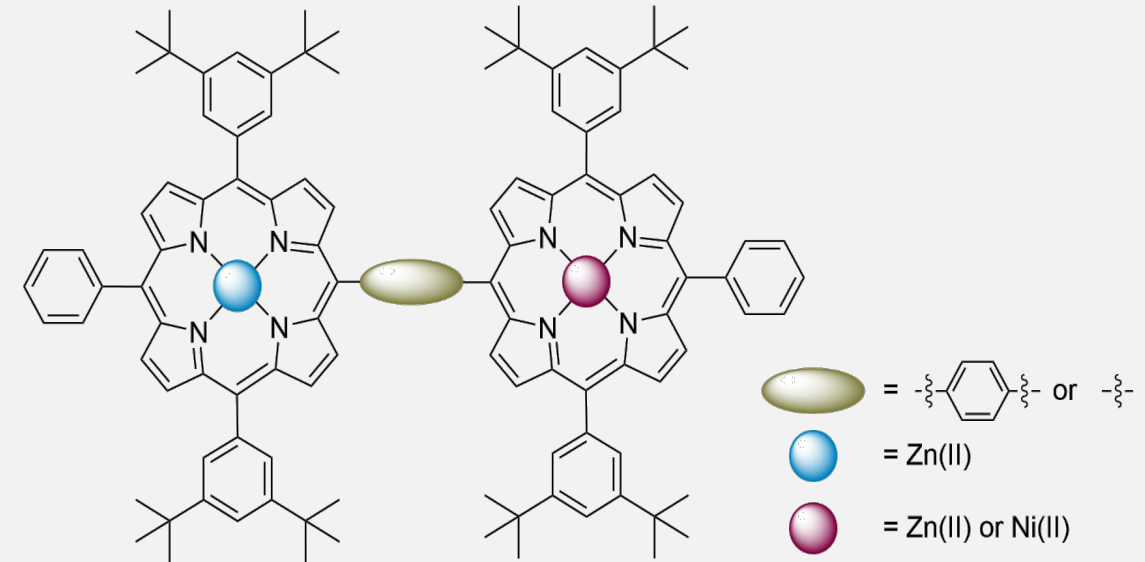
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Introduction & Objectives



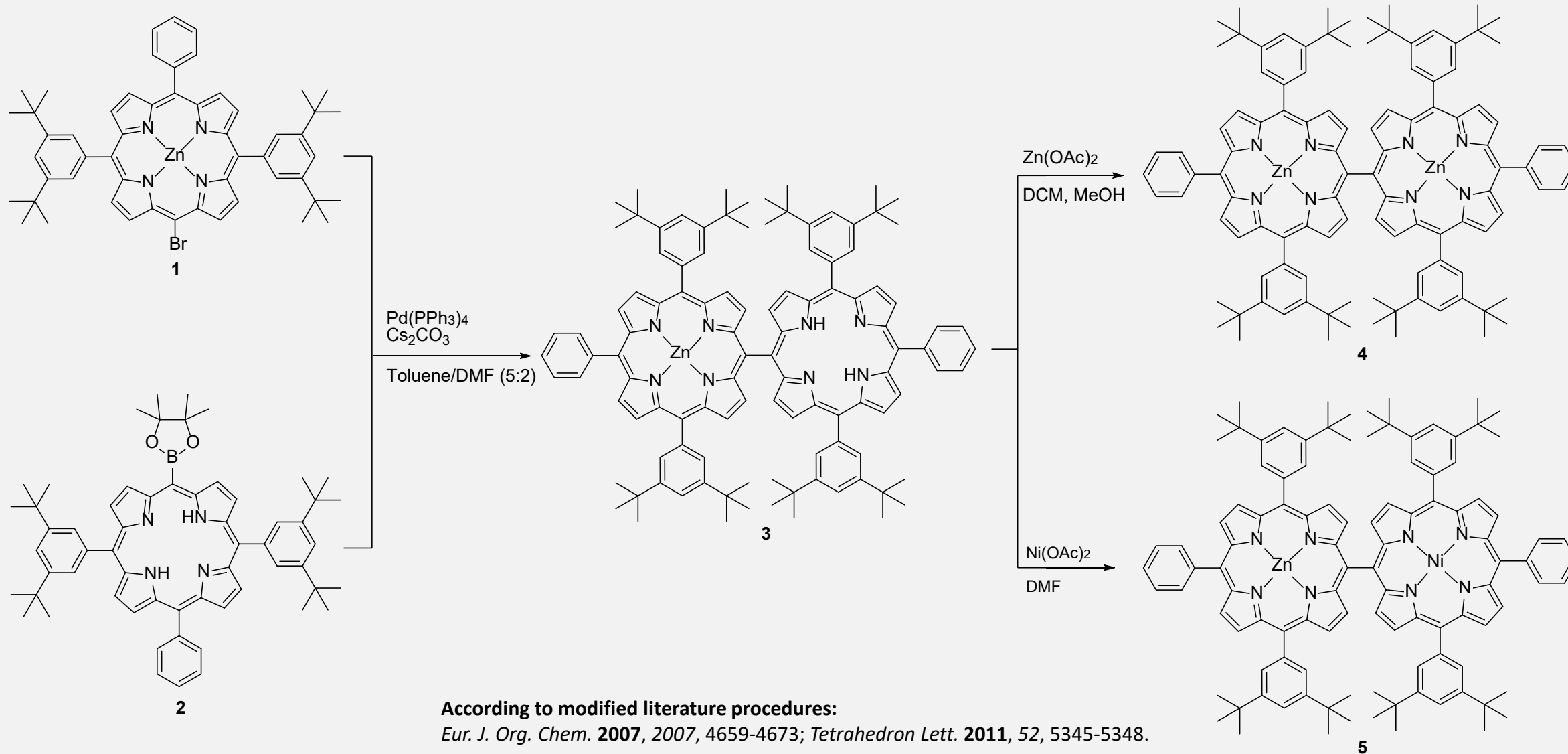
Macro to Nano Spectroscopy, **2012**, ch. 6, 87-108.

- > 2D-Electronic Spectroscopy
 - Behaviour of individual monomer units
 - Intramolecular dynamics

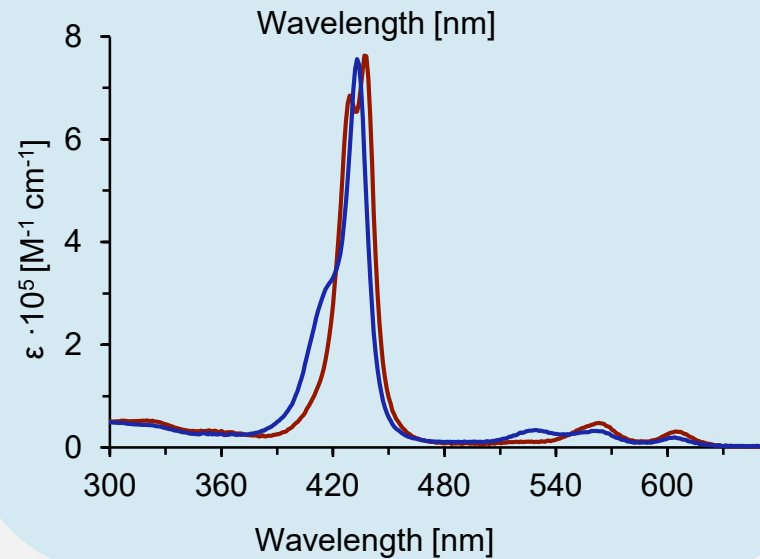
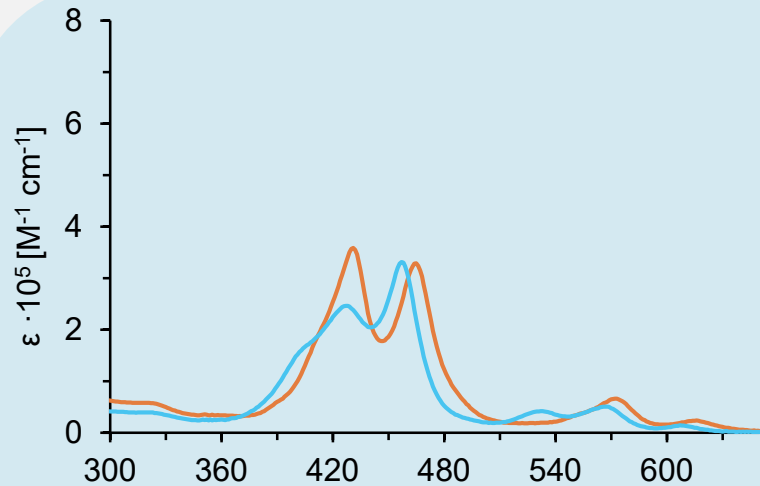


- > Porphyrin dyads with different electronic properties
 - Linker
 - Metal ion

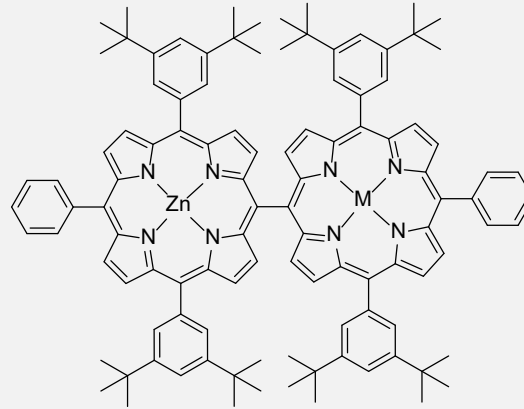
Synthesis – Porphyrin Dyads



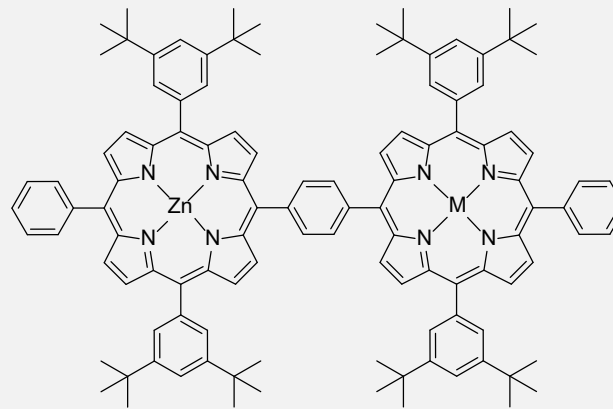
Characterisation – UV-Vis Absorption and Fluorescence Emission Spectroscopy



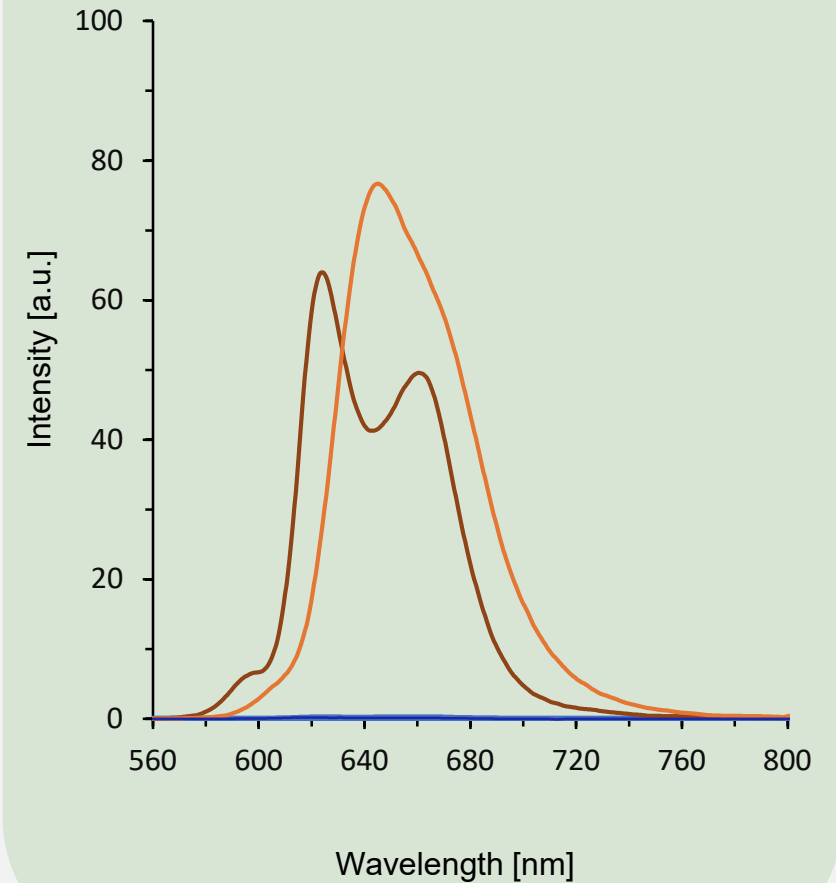
Conditions: Toluene



M: Zn, Ni



M: Zn, Ni



Conditions: Excitation at 432 nm, Toluene

Conclusion & Outlook

- > 4 *meso-meso* linked zinc-zinc and zinc-nickel porphyrin dyads were successfully synthesized and characterized.
- > Electronic properties of the dyads are affected by insertion of different metal ions and linkers.
- > Detailed information on dynamics in ground and excited states of the dyads are going to be studied by 2D-Electronic spectroscopy at EPFL, which allows us to monitor energy transfer processes in the dyads.

Acknowledgments

- > Collaborators: Chergui Group (EPFL)

